

BGA glider data sheet - ASW 28-18 & ASW 28-18E

See separate sheet for ASW28

Data source: EASA data 6 12 2004 and Schleicher Handbooks Dated 10 2 2005

Manufacturer: A Schleicher GmbH & Co, Segelflugzeugbau, 36161 Poppenhausen, Germany

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URL : http://www.as-segelflugzeuge.de/englisch/e_main.htm

Weighing Data:

| | Kg | Pounds |
|---|-----|--------|
| Max weight with water 15m | 525 | 1157 |
| Max weight with water 18m | 575 | 1268 |
| Max wt aerobatics & cloud 15m | 405 | 892 |
| Max wt aerobatics & cloud 18m | 419 | 923 |
| Max weight of non-lifting components (everything except wings) | 285 | 628 |
| BGA concession non-aerobatic max weight of non-lifting components [+5%] | 299 | 660 |
| Max pilot weight (seat load) | 115 | 253 |
| Baggage compartment | 12 | 26 |

mm Inches

| | | |
|---|-----|-------|
| Forward C of G limit (aft of datum) 15m | 227 | 8.94 |
| Forward C of G limit (aft of datum) 18m | 233 | 9.17 |
| Aft C of G limit (aft of datum) | 406 | 15.98 |

Control deflections in mm

| | Up | Down | Distance Hinge to measuring point |
|----------------------------------|---|-------------|-----------------------------------|
| Ailerons | 38 - 48 | 23 - 29 | 111 |
| Ailerons to be neutral $\pm 1,5$ | | | |
| Elevator | 23,5 - 28,5 | 23,5 - 28,5 | 75 |
| Rudder | Left & right 170 - 190 | | 334 |
| Airbrakes | Upper edge cover over wing surface 160 - 170 | | |

Controls max free play (controls held central)

Rudder 3,5 Elevator 2,0 Aileron 2,0

Longitudinal datum: Wing root LE

Horizontal datum: Rear fuselage sloping rear down 49: 1000

Maximum speeds

| | Knots | Kph | | Knots | Kph |
|------------------|-------|-----|----------------------------|-------|------|
| VNE | 146 | 270 | Manoeuvre | 108 | 200 |
| Rough air | 108 | 200 | Wheel operating | 108 | 200 |
| Winch / auto tow | 75 | 140 | Aerotow | 92 | 170 |
| | | | Airbrakes open | 146 | 270 |
| | | | Speed with engine extended | 75* | 140* |

VNE at altitude

| Height in feet | Meters | Knots | Kph |
|----------------|--------|-------|-----|
| Up to 16 404 | 5 000 | 146 | 270 |
| Up to 22 965 | 8 000 | 130 | 242 |
| Up to 29 527 | 9 000 | 116 | 215 |
| Up to 32 808 | 10 000 | 109 | 202 |
| Up to 39 370 | 12 000 | 95 | 176 |

*These are also the max speeds for extending or retracting the engine. The minimum speed for extending or retracting the engine is 45 knots, 85 km/h

Max winch weak link: - 825 daN, = 841 Kg (Tost red)

Tyre pressures: Main 49 - 52 psi (3,4 - 3,6 bar), rear 34 - 37 psi (2,4 - 2,6 bar)

Semi aerobatic without water. Cloud flying permitted, without water.

LBA Type certificate No 423

Span optional 15 or 18 meters A self-sustaining engine is an option ("E" version).

This sheet compiled by: Tim Macfadyen Date: 8 Jan 2005

Last update 20 August 2024 - Rewritten with Schleicher handbook data